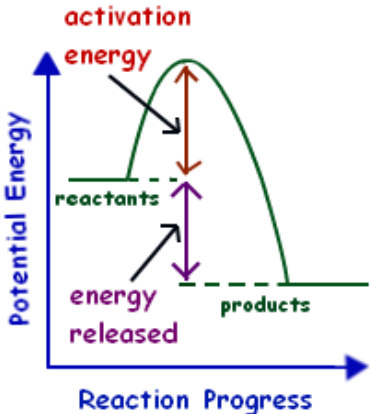


ANSWERS: Crystal ball questions on Endothermic and Exothermic reactions

QUESTION: Classify the following reactions as endothermic or exothermic

Reactions	Endothermic or Exothermic reaction
a lit firework	EXOthermic
petrol evaporating	ENDOthermic
	EXOthermic
an illuminous glowstick	EXOthermic
cooking an egg	ENDOthermic
Kathmandu hand warmer	EXOthermic
nuclear fission	EXOthermic
Thermite reaction used to repair railway tracks $\text{Al} + \text{Fe}_2\text{O}_3 \rightarrow \text{Al}_2\text{O}_3 + \text{Fe}$	EXOthermic
$6\text{CO}_2 + 6\text{H}_2\text{O} \xrightarrow{\text{light}} \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$	ENDOthermic
ice melting	ENDOthermic
magnesium ribbon burning in air	EXOthermic

alcohol evaporating	ENDOthermic
$\text{C}(s) + \text{O}_2(g) \rightarrow \text{CO}_2(g) \quad \Delta_r H = -393 \text{ kJ mol}^{-1}$	EXOthermic
sulfuric acid + water, resulting in a temperature rise of 22 °C	EXOthermic
respiration of all living things	EXOthermic
salt crystals forming from a salt solution	EXOthermic
iodine resubliming (from a gas to solid state)	EXOthermic
a bonfire	EXOthermic
methane gas burning in a bunsen burner	EXOthermic
water added to fertiliser resulting in a temperature decrease	ENDOthermic